

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

AU-YOUNG, Janice

LAL, Preeti

BANDMAN, Olga

REDDY, Roopa

BAUGHN, Mariah R.

YUE, Henry

HILLMAN, Jennifer L.

<120> HUMAN CARBOHYDRATE-ASSOCIATED PROTEINS

<130> PF-0604 USN

<140> 09/806,277

<141> Herewith

<150> PCT/US99/22685

<151> 1999-09-29

<150> US 60/240,934

<151> 1998-12-03

<150> US 09/205,656

<151> 1998-12-03

<150> US 60/155,227

<151> 1998-11-13

<150> US 60/155,266

<151> 1998-10-06

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<151> 1998-10-01

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<223> Incyte ID NO: 714029CD1

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			20						25				30	
Val	Tyr	Phe	Pro	Arg	Leu	Ile	Val	Pro	Phe	Cys	Gly	His	Ile	Lys
			35						40				45	

Gly	Gly	Met	Arg	Pro	Gly	Lys	Lys	Val	Leu	Val	Met	Gly	Ile	Val
				50					55					60
Asp	Leu	Asn	Pro	Glu	Ser	Phe	Ala	Ile	Ser	Leu	Thr	Cys	Gly	Asp
				65					70					75
Ser	Glu	Asp	Pro	Pro	Ala	Asp	Val	Ala	Ile	Glu	Leu	Lys	Ala	Val
				80					85					90
Phe	Thr	Asp	Arg	Gln	Leu	Leu	Arg	Asn	Ser	Cys	Ile	Ser	Gly	Glu
				95					100					105
Arg	Gly	Glu	Glu	Gln	Ser	Ala	Ile	Pro	Tyr	Phe	Pro	Phe	Ile	Pro
				110					115					120
Asp	Gln	Pro	Phe	Arg	Val	Glu	Ile	Leu	Cys	Glu	His	Pro	Arg	Phe
				125					130					135
Arg	Val	Phe	Val	Asp	Gly	His	Gln	Leu	Phe	Asp	Phe	Tyr	His	Arg
				140					145					150
Ile	Gln	Thr	Leu	Ser	Ala	Ile	Asp	Thr	Ile	Lys	Ile	Asn	Gly	Asp
				155					160					165
Leu	Gln	Ile	Thr	Lys	Leu									
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Glu	Leu	Ser	Ser	Asn	Pro	Ala	Ala	Ser	Ala	Gly	Ala	Ser	Leu	Glu
				20					25					30
Pro	Pro	Ala	Ala	Pro	Ala	Pro	Gly	Glu	Asp	Asn	Pro	Ala	Gly	Ala
				35					40					45
Gly	Gly	Ala	Ala	Val	Ala	Gly	Ala	Ala	Gly	Gly	Ala	Arg	Arg	Phe
				50					55					60
Leu	Cys	Gly	Val	Val	Glu	Gly	Phe	Tyr	Gly	Arg	Pro	Trp	Val	Met
				65					70					75
Glu	Gln	Arg	Lys	Glu	Leu	Phe	Arg	Arg	Leu	Gln	Lys	Trp	Glu	Leu
				80					85					90
Asn	Thr	Tyr	Leu	Tyr	Ala	Pro	Lys	Asp	Asp	Tyr	Lys	His	Arg	Met
				95					100					105
Phe	Trp	Arg	Glu	Met	Tyr	Ser	Val	Glu	Glu	Ala	Glu	Gln	Leu	Met
				110					115					120
Thr	Leu	Ile	Ser	Ala	Ala	Arg	Glu	Tyr	Glu	Ile	Glu	Phe	Ile	Tyr
				125					130					135
Ala	Ile	Ser	Pro	Gly	Leu	Asp	Ile	Thr	Phe	Ser	Asn	Pro	Lys	Glu
				140					145					150
Val	Ser	Thr	Leu	Lys	Arg	Lys	Leu	Asp	Gln	Val	Ser	Gln	Phe	Gly
				155					160					165
Cys	Arg	Ser	Phe	Ala	Leu	Leu	Phe	Asp	Asp	Ile	Asp	His	Asn	Met
				170					175					180
Cys	Ala	Ala	Asp	Lys	Glu	Val	Phe	Ser	Ser	Phe	Ala	His	Ala	Gln
				185					190					195
Val	Ser	Ile	Thr	Asn	Glu	Ile	Tyr	Gln	Tyr	Leu	Gly	Glu	Pro	Glu
				200					205					210

Thr	Phe	Leu	Phe	Cys	Pro	Thr	Glu	Tyr	Cys	Gly	Thr	Phe	Cys	Tyr	215	220	225
Pro	Asn	Val	Ser	Gln	Ser	Pro	Tyr	Leu	Arg	Thr	Val	Gly	Glu	Lys	230	235	240
Leu	Leu	Pro	Gly	Ile	Glu	Val	Leu	Trp	Thr	Gly	Pro	Lys	Val	Val	245	250	255
Ser	Lys	Glu	Ile	Pro	Val	Glu	Ser	Ile	Glu	Glu	Val	Ser	Lys	Ile	260	265	270
Ile	Lys	Arg	Ala	Pro	Val	Ile	Trp	Asp	Asn	Ile	His	Ala	Asn	Asp	275	280	285
Tyr	Asp	Gln	Lys	Arg	Leu	Phe	Leu	Gly	Pro	Tyr	Lys	Gly	Arg	Ser	290	295	300
Thr	Glu	Leu	Ile	Pro	Arg	Leu	Lys	Gly	Val	Leu	Thr	Asn	Pro	Asn	305	310	315
Cys	Glu	Phe	Glu	Ala	Asn	Tyr	Val	Ala	Ile	His	Thr	Leu	Ala	Thr	320	325	330
Trp	Tyr	Lys	Ser	Asn	Met	Asn	Gly	Val	Arg	Lys	Asp	Val	Val	Met	335	340	345
Thr	Asp	Ser	Glu	Asp	Ser	Thr	Val	Ser	Ile	Gln	Ile	Lys	Leu	Glu	350	355	360
Asn	Glu	Gly	Ser	Asp	Glu	Asp	Ile	Glu	Thr	Asp	Val	Leu	Tyr	Ser	365	370	375
Pro	Gln	Met	Ala	Leu	Lys	Leu	Ala	Leu	Thr	Glu	Trp	Leu	Gln	Glu	380	385	390
Phe	Gly	Val	Pro	His	Gln	Tyr	Ser	Ser	Arg	Gln	Val	Ala	His	Ser	395	400	405
Gly	Ala	Lys	Ala	Ser	Val	Val	Asp	Gly	Thr	Pro	Leu	Val	Ala	Ala	410	415	420
Pro	Ser	Leu	Asn	Ala	Thr	Thr	Val	Val	Thr	Thr	Val	Tyr	Gln	Glu	425	430	435
Pro	Ile	Met	Ser	Gln	Gly	Ala	Ala	Leu	Ser	Gly	Glu	Pro	Thr	Thr	440	445	450
Leu	Thr	Lys	Glu	Glu	Glu	Lys	Lys	Gln	Pro	Asp	Glu	Glu	Pro	Met	455	460	465
Asp	Met	Val	Val	Glu	Lys	Gln	Glu	Glu	Thr	Asp	His	Lys	Asn	Asp	470	475	480
Asn	Gln	Ile	Leu	Ser	Glu	Ile	Val	Glu	Ala	Lys	Met	Ala	Glu	Glu	485	490	495
Leu	Lys	Pro	Met	Asp	Thr	Asp	Lys	Glu	Ser	Ile	Ala	Glu	Ser	Lys	500	505	510
Ser	Pro	Glu	Met	Ser	Met	Gln	Glu	Asp	Cys	Ile	Ser	Asp	Ile	Ala	515	520	525
Pro	Met	Gln	Thr	Asp	Glu	Gln	Thr	Asn	Lys	Glu	Gln	Phe	Val	Pro	530	535	540
Gly	Pro	Asn	Glu	Lys	Pro	Leu	Tyr	Thr	Ala	Glu	Pro	Val	Thr	Leu	545	550	555
Glu	Asp	Leu	Gln	Leu	Leu	Ala	Asp	Leu	Phe	Tyr	Leu	Pro	Tyr	Glu	560	565	570
His	Gly	Pro	Lys	Gly	Ala	Gln	Met	Leu	Arg	Glu	Phe	Gln	Trp	Leu	575	580	585
Arg	Ala	Asn	Ser	Ser	Val	Val	Ser	Val	Asn	Cys	Lys	Gly	Lys	Asp	590	595	600
Ser	Glu	Lys	Ile	Glu	Glu	Trp	Arg	Ser	Arg	Ala	Ala	Lys	Phe	Glu	605	610	615
Glu	Met	Cys	Gly	Leu	Val	Met	Gly	Met	Phe	Thr	Arg	Leu	Ser	Asn	620	625	630
Cys	Ala	Asn	Arg	Thr	Ile	Leu	Tyr	Asp	Met	Tyr	Ser	Tyr	Val	Trp			

	635		640		645
Asp Ile Lys Ser	Ile Met Ser Met Val	Lys Ser Phe Val Gln Trp			
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Leu Ala Phe Ala	Ala Asn				
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Leu Leu Val Ala Gly	Ser Arg Leu Pro Arg	Ile Lys Ser Gln Thr	
	35	40	45
Ile Ala Cys Arg Ser	Gly Pro Thr Trp Trp	Gly Pro Gln Arg Leu	
	50	55	60
Asn Ser Gly Gly Arg	Trp Asp Ser Glu Val	Met Ala Ser Thr Val	
	65	70	75
Val Lys Tyr Leu Ser	Gln Glu Glu Ala Gln	Ala Val Asp Gln Glu	
	80	85	90
Leu Phe Asn Glu Tyr	Gln Phe Ser Val Asp	Gln Leu Met Glu Leu	
	95	100	105
Ala Gly Leu Ser Cys	Ala Thr Ala Ile Ala	Lys Ala Tyr Pro Pro	
	110	115	120
Thr Ser Met Ser Arg	Ser Pro Pro Thr Val	Leu Val Ile Cys Gly	
	125	130	135
Pro Gly Asn Asn Gly	Gly Asp Gly Leu Val	Cys Ala Arg His Leu	
	140	145	150
Lys Leu Phe Gly Tyr	Glu Pro Thr Ile Tyr	Tyr Pro Lys Arg Pro	
	155	160	165
Asn Lys Pro Leu Phe	Thr Ala Leu Val Thr	Gln Cys Gln Lys Met	
	170	175	180
Asp Ile Pro Phe Leu	Gly Glu Met Pro Ala	Glu Pro Met Thr Ile	
	185	190	195
Asp Glu Leu Tyr Glu	Leu Val Val Asp Ala	Ile Phe Gly Phe Ser	
	200	205	210
Phe Lys Gly Asp Val	Arg Glu Pro Phe His	Ser Ile Leu Ser Val	
	215	220	225
Leu Lys Gly Leu Thr	Val Pro Ile Ala Ser	Ile Asp Ile Pro Ser	
	230	235	240
Gly Trp Asp Val Glu	Lys Gly Asn Ala Gly	Gly Ile Gln Pro Asp	
	245	250	255
Leu Leu Ile Ser Leu	Thr Ala Pro Lys Lys	Ser Ala Thr Gln Phe	
	260	265	270
Thr Gly Arg Tyr His	Tyr Leu Gly Gly Arg	Phe Val Pro Pro Ala	
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Leu Glu Lys Lys Tyr	Gln Leu Asn Leu Pro	Pro Tyr Pro Asp Thr	
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Glu Cys Val Tyr Arg	Leu Gln		

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 Met Val His Tyr Ile Tyr Gln Arg Phe Arg Val Leu Glu Gln Gly
 35 40 45
 Leu Glu Lys Cys Thr Gln Ala Thr Arg Ala Tyr Ile Gln Glu Phe
 50 55 60
 Gln Glu Phe Ser Lys Asn Ile Ser Val Met Leu Gly Arg Cys Gln
 65 70 75
 Thr Tyr Thr Ser Glu Tyr Lys Ser Ala Val Gly Asn Leu Ala Leu
 80 85 90
 Arg Val Glu Arg Ala Gln Arg Glu Ile Asp Tyr Ile Gln Tyr Leu
 95 100 105
 Arg Glu Ala Asp Glu Cys Ile Glu Ser Glu Asp Lys Thr Leu Ala
 110 115 120
 Glu Met Leu Leu Gln Glu Ala Glu Glu Glu Lys Lys Ile Arg Thr
 125 130 135
 Leu Leu Asn Ala Ser Cys Asp Asn Met Leu Met Gly Ile Lys Ser
 140 145 150
 Leu Lys Ile Val Lys Lys Met Met Asp Thr His Gly Ser Trp Met
 155 160 165
 Lys Asp Ala Val Tyr Asn Ser Pro Lys Val Tyr Leu Leu Ile Gly
 170 175 180
 Ser Arg Asn Asn Thr Val Trp Glu Phe Ala Asn Ile Arg Ala Phe
 185 190 195
 Met Glu Asp Asn Thr Lys Pro Ala Pro Arg Lys Gln Ile Leu Thr
 200 205 210
 Leu Ser Trp Gln Gly Thr Gly Gln Val Ile Tyr Lys Gly Phe Leu
 215 220 225
 Phe Phe His Asn Gln Ala Thr Ser Asn Glu Ile Ile Lys Tyr Asn
 230 235 240
 Leu Gln Lys Arg Thr Val Glu Asp Arg Met Leu Leu Pro Gly Gly
 245 250 255
 Val Gly Arg Ala Leu Val Tyr Gln His Ser Pro Ser Thr Tyr Ile
 260 265 270
 Asp Leu Ala Val Asp Glu His Gly Leu Trp Ala Ile His Ser Gly
 275 280 285
 Pro Gly Thr His Ser His Leu Val Leu Thr Lys Ile Glu Pro Gly
 290 295 300
 Thr Leu Gly Val Glu His Ser Trp Asp Thr Pro Cys Arg Ser Gln
 305 310 315
 Asp Ala Glu Ala Ser Phe Leu Leu Cys Gly Val Leu Tyr Val Val

				320					325					330
Tyr	Ser	Thr	Gly	Gly	Gln	Gly	Pro	His	Arg	Ile	Thr	Cys	Ile	Tyr
				335					340					345
Asp	Pro	Leu	Gly	Thr	Ile	Ser	Glu	Glu	Asp	Leu	Pro	Asn	Leu	Phe
				350					355					360
Phe	Pro	Lys	Arg	Pro	Arg	Ser	His	Ser	Met	Ile	His	Tyr	Asn	Pro
				365					370					375
Arg	Asp	Lys	Gln	Leu	Tyr	Ala	Trp	Asn	Glu	Gly	Asn	Gln	Ile	Thr
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Tyr	Lys	Leu	Gln	Thr	Lys	Arg	Lys	Leu	Pro	Leu	Lys			
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Ser	Thr	Ala	Val	Thr	Ser	Asp	Leu	Asn	Ala	Arg	Thr	Ala	Pro	Trp
				20					25					30
Ser	Ser	Ala	Leu	Pro	Gln	Pro	Ser	Thr	Ser	Asp	Pro	Ser	Ile	Ala
				35					40					45
Asn	His	Ala	Ser	Val	Gly	Pro	Thr	Leu	Gln	Thr	Thr	Ser	Val	Ser
				50					55					60
Pro	Asp	Pro	Thr	Arg	Glu	Ser	Val	Leu	Gln	Pro	Ser	Pro	Gln	Val
				65					70					75
Pro	Ala	Thr	Thr	Val	Ala	His	Thr	Ala	Thr	Gln	Gln	Pro	Ala	Ala
				80					85					90
Pro	Ala	Pro	Pro	Ala	Val	Ser	Pro	Arg	Glu	Ala	Leu	Met	Glu	Ala
				95					100					105
Met	His	Thr	Val	Pro	Val	Pro	Pro	Thr	Thr	Val	Arg	Thr	Asp	Ser
				110					115					120
Leu	Gly	Lys	Asp	Ala	Pro	Ala	Gly	Trp	Gly	Thr	Thr	Pro	Ala	Ser
				125					130					135
Pro	Thr	Leu	Ser	Pro	Glu	Glu	Glu	Asp	Asp	Ile	Arg	Asn	Val	Ile
				140					145					150
Gly	Arg	Cys	Lys	Asp	Thr	Leu	Ser	Thr	Ile	Thr	Gly	Pro	Thr	Thr
				155					160					165
Gln	Asn	Thr	Tyr	Gly	Arg	Asn	Glu	Gly	Ala	Trp	Met	Lys	Asp	Pro
				170					175					180
Leu	Ala	Lys	Asp	Glu	Arg	Ile	Tyr	Val	Thr	Asn	Tyr	Tyr	Tyr	Gly
				185					190					195
Asn	Thr	Leu	Val	Glu	Phe	Arg	Asn	Leu	Glu	Asn	Phe	Lys	Gln	Gly
				200					205					210
Arg	Trp	Ser	Asn	Ser	Tyr	Lys	Leu	Pro	Tyr	Ser	Trp	Ile	Gly	Thr
				215					220					225
Gly	His	Val	Val	Tyr	Asn	Gly	Ala	Phe	Tyr	Tyr	Asn	Arg	Ala	Phe
				230					235					240
Thr	Arg	Asn	Ile	Ile	Lys	Tyr	Asp	Leu	Lys	Gln	Arg	Tyr	Val	Ala
				245					250					255

Ala	Trp	Ala	Met	Leu	His	Asp	Val	Ala	Tyr	Glu	Glu	Ala	Thr	Pro
				260					265					270
Trp	Arg	Trp	Gln	Gly	His	Ser	Asp	Val	Asp	Phe	Ala	Val	Asp	Glu
				275					280					285
Asn	Gly	Leu	Trp	Leu	Ile	Tyr	Pro	Ala	Leu	Asp	Asp	Glu	Gly	Phe
				290					295					300
Ser	Gln	Glu	Val	Ile	Val	Leu	Ser	Lys	Leu	Asn	Ala	Ala	Asp	Leu
				305					310					315
Ser	Thr	Gln	Lys	Glu	Thr	Thr	Trp	Arg	Thr	Gly	Leu	Arg	Arg	Asn
				320					325					330
Phe	Tyr	Gly	Asn	Cys	Phe	Val	Ile	Cys	Gly	Val	Leu	Tyr	Ala	Val
				335					340					345
Asp	Ser	Tyr	Asn	Gln	Arg	Asn	Ala	Asn	Ile	Ser	Tyr	Ala	Phe	Asp
				350					355					360
Thr	His	Thr	Asn	Thr	Gln	Ile	Val	Pro	Arg	Leu	Leu	Phe	Glu	Asn
				365					370					375
Glu	Tyr	Ser	Tyr	Thr	Thr	Gln	Ile	Asp	Tyr	Asn	Pro	Lys	Asp	Arg
				380					385					390
Leu	Leu	Tyr	Ala	Trp	Asp	Asn	Gly	His	Gln	Val	Thr	Tyr	His	Val
				395					400					405
Ile	Phe	Ala	Tyr											

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Phe	Leu	Ser	Leu	Leu	Pro	Ser	Gly	His	Pro	Gln	Pro	Ala	Gly	Asp
				20					25					30
Asp	Ala	Cys	Ser	Val	Gln	Ile	Leu	Val	Pro	Gly	Leu	Lys	Gly	Asp
				35					40					45
Ala	Gly	Glu	Lys	Gly	Asp	Lys	Gly	Ala	Pro	Gly	Arg	Pro	Gly	Arg
				50					55					60
Val	Gly	Pro	Thr	Gly	Glu	Lys	Gly	Asp	Met	Gly	Asp	Lys	Gly	Gln
				65					70					75
Lys	Gly	Ser	Val	Gly	Arg	His	Gly	Lys	Ile	Gly	Pro	Ile	Gly	Ser
				80					85					90
Lys	Gly	Glu	Lys	Gly	Asp	Ser	Gly	Asp	Ile	Gly	Pro	Pro	Gly	Pro
				95					100					105
Asn	Gly	Glu	Pro	Gly	Leu	Pro	Cys	Glu	Cys	Ser	Gln	Leu	Arg	Lys
				110					115					120
Ala	Ile	Gly	Glu	Met	Asp	Asn	Gln	Val	Ser	Gln	Leu	Thr	Ser	Glu
				125					130					135
Leu	Lys	Phe	Ile	Lys	Asn	Ala	Val	Ala	Gly	Val	Arg	Glu	Thr	Glu
				140					145					150
Ser	Lys	Ile	Tyr	Leu	Leu	Val	Lys	Glu	Glu	Lys	Arg	Tyr	Ala	Asp
				155					160					165
Ala	Gln	Leu	Ser	Cys	Gln	Gly	Arg	Gly	Gly	Thr	Leu	Ser	Met	Pro
				170					175					180

Lys	Asp	Glu	Ala	Ala	Asn	Gly	Leu	Met	Ala	Ala	Tyr	Leu	Ala	Gln	
				185					190					195	
Ala	Gly	Leu	Ala	Arg	Val	Phe	Ile	Gly	Ile	Asn	Asp	Leu	Glu	Lys	
				200					205					210	
Glu	Gly	Ala	Phe	Val	Tyr	Ser	Asp	His	Ser	Pro	Met	Arg	Thr	Phe	
				215					220					225	
Asn	Lys	Trp	Arg	Ser	Gly	Glu	Pro	Asn	Asn	Ala	Tyr	Asp	Glu	Glu	
				230					235					240	
Asp	Cys	Val	Glu	Met	Val	Ala	Ser	Gly	Gly	Trp	Asn	Asp	Val	Ala	
				245					250					255	
Cys	His	Thr	Thr	Met	Tyr	Phe	Met	Cys	Glu	Phe	Asp	Lys	Glu	Asn	
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<213> Homo sapiens

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<221> misc_feature

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Phe	Phe	Ser	Val	Ala	Thr	Ser	Gly	Cys	Ser	Ala	Ala	Ala	Ala	Ser	
				20					25					30	
Ser	Leu	Glu	Met	Leu	Ser	Arg	Glu	Phe	Glu	Thr	Cys	Ala	Phe	Ser	
				35					40					45	
Phe	Ser	Ser	Leu	Pro	Arg	Ser	Cys	Lys	Glu	Ile	Lys	Glu	Arg	Cys	
				50					55					60	
His	Ser	Ala	Gly	Asp	Gly	Leu	Tyr	Phe	Leu	Arg	Thr	Lys	Asn	Gly	
				65					70					75	
Val	Val	Tyr	Gln	Thr	Phe	Cys	Asp	Met	Thr	Ser	Gly	Gly	Gly	Gly	
				80					85					90	
Trp	Thr	Leu	Val	Ala	Ser	Val	His	Glu	Asn	Asp	Met	His	Gly	Lys	
				95					100					105	
Cys	Thr	Val	Gly	Asp	Arg	Trp	Ser	Ser	Gln	Gln	Gly	Asn	Lys	Ala	
				110					115					120	
Asp	Tyr	Pro	Glu	Gly	Asp	Gly	Asn	Trp	Ala	Asn	Tyr	Asn	Thr	Phe	
				125					130					135	
Gly	Ser	Ala	Glu	Ala	Ala	Thr	Ser	Asp	Asp	Tyr	Lys	Asn	Pro	Gly	
				140					145					150	
Tyr	Tyr	Asp	Ile	Gln	Ala	Lys	Asp	Leu	Gly	Ile	Trp	His	Val	Pro	
				155					160					165	
Asn	Lys	Ser	Pro	Met	Gln	His	Trp	Arg	Asn	Ser	Ala	Leu	Leu	Arg	
				170					175					180	
Tyr	Arg	Thr	Asn	Thr	Gly	Phe	Leu	Gln	Arg	Leu	Gly	His	Asn	Leu	
				185					190					195	
Phe	Gly	Ile	Tyr	Gln	Lys	Tyr	Pro	Val	Lys	Tyr	Arg	Ser	Gly	Lys	
				200					205					210	
Cys	Trp	Asn	Asp	Asn	Gly	Pro	Ala	Ile	Pro	Val	Val	Tyr	Asp	Phe	
				215					220					225	
Gly	Asp	Ala	Lys	Lys	Thr	Ala	Ser	Tyr	Tyr	Ser	Pro	Tyr	Gly	Gln	
				230					235					240	

Arg	Glu	Phe	Val	Ala	Gly	Phe	Val	Gln	Phe	Arg	Val	Phe	Asn	Asn	
				245					250					255	
Glu	Arg	Ala	Ala	Asn	Ala	Leu	Cys	Ala	Gly	Ile	Lys	Val	Thr	Gly	
				260					265					270	
Cys	Asn	Thr	Glu	His	His	Cys	Ile	Gly	Gly	Gly	Gly	Phe	Phe	Pro	
				275					280					285	
Gln	Gly	Lys	Pro	Arg	Gln	Cys	Gly	Asp	Phe	Ser	Ala	Phe	Asp	Trp	
				290					295					300	
Asp	Gly	Tyr	Gly	Thr	His	Val	Lys	Ser	Ser	Cys	Ser	Arg	Glu	Ile	
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Thr	Glu	Ala	Ala	Val	Leu	Leu	Phe	Tyr	Arg						
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<211> 2351

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 1450775CB1

<400> 9

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<210> 10

<211> 1195

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 3369350CB1

<400> 10

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<211> 2235

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 1648214CB1

<400> 11

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<210> 12

<211> 1877

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO:2743295CB1

<400> 12

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<210> 13

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 2821011CB1

<400> 13

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<210> 14

<211> 1142

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID NO: 2921920CB1

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ttgttgagg attcgttcag ttccgggtgt ttaataacga gagagcagcc aacgcccttt 840
gtgctgggat aaaagtact ggctgtaaca ctgagcatca ctgcatcggt ggaggagggt 900
tcttcccaca gggcaaacc cgtcagtgtg gggacttctc cgcctttgac tgggatggat 960
atggaactca cgtaagagc agctgcagtc gggagataac ggaggcggt gtactcttgt 1020
tctatagatg agacagagct ctgcggtgtc agggcgagaa cccatcttc aaccccggt 1080
atttgagac ggaaaaaactg gaattctaac aaggaggaga ggagactaaa tcacatcaat 1140
tc 1142

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<210> 15

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GENBANK ID NO: g2810994

<400> 15

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Met Leu Ser Leu Asn Asn Leu Gln Asn Ile Ile Tyr Asn Pro Val
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Ile Pro Phe Val Gly Thr Ile Pro Asp Gln Leu Asp Pro Gly Thr
          20          25          30

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<220>
<221> misc_feature
<223> GENBANK ID NO: q144861
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15/22

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Gln	Glu	Ile	Ser	Tyr	Ser	Gly	Gly	Glu	Phe	Gln	Ile	Ser	Asp	Glu
				50					55					60
Ile	Asn	Ile	Val	Tyr	Asp	Asp	Gly	Ile	Asp	Thr	Tyr	Thr	Lys	Lys
				65					70					75
Arg	Val	Asp	Glu	Val	Leu	Glu	Ala	Ser	Asn	Leu	Glu	Ala	Thr	Val
				80					85					90
Ser	Asn	Glu	Ile	Val	Pro	Gly	Lys	Thr	Asn	Phe	Leu	Val	Gly	Ile
				95					100					105
Asn	Glu	Ser	Gly	Gly	Val	Val	Asp	Asn	Tyr	Phe	Asn	Lys	Asn	Ile
				110					115					120
Pro	His	Asp	Glu	Ser	Phe	Phe	Asp	Glu	Lys	Met	Asp	Ala	Asn	Ile
				125					130					135
Val	Ser	Val	Lys	Asp	Gly	Val	Ile	Gly	Val	Ile	Ala	Glu	Asp	Thr
				140					145					150
Asp	Ser	Ala	Phe	Tyr	Gly	Val	Thr	Thr	Leu	Lys	His	Val	Phe	Asn
				155					160					165
Gln	Leu	Glu	Glu	Gly	Asn	Glu	Ile	Lys	Asn	Phe	Arg	Ala	Asp	Asp
				170					175					180
Tyr	Ala	Glu	Val	Ala	His	Arg	Gly	Phe	Ile	Glu	Gly	Tyr	Tyr	Gly
				185					190					195
Asn	Pro	Trp	Ser	Asn	Glu	Asp	Arg	Ala	Glu	Leu	Met	Lys	Phe	Gly
				200					205					210
Gly	Asp	Tyr	Lys	Leu	Asn	Gln	Tyr	Val	Phe	Ala	Pro	Lys	Asp	Asp
				215					220					225
Pro	Tyr	His	Asn	Ser	Lys	Trp	Arg	Asp	Leu	Tyr	Pro	Glu	Glu	Lys
				230					235					240
Leu	Ser	Glu	Ile	Lys	Lys	Leu	Ala	Gln	Met	Gly	Asn	Glu	Thr	Lys
				245					250					255
Asn	Arg	Tyr	Val	Tyr	Ala	Leu	His	Pro	Phe	Met	Asn	Asn	Pro	Val
				260					265					270
Arg	Phe	Asp	Thr	Glu	Glu	Asn	Tyr	Gln	Asn	Asp	Leu	Gly	Val	Ile
				275					280					285
Lys	Ala	Lys	Phe	Thr	Gln	Leu	Leu	Glu	Asn	Asp	Val	Arg	Gln	Phe
				290					295					300
Ala	Ile	Leu	Ala	Asp	Asp	Ala	Ser	Ala	Pro	Ala	Gln	Gly	Ala	Ser
				305					310					315
Met	Tyr	Val	Lys	Leu	Leu	Thr	Asp	Leu	Thr	Arg	Trp	Leu	Glu	Glu
				320					325					330
Gln	Gln	Ser	Thr	Tyr	Pro	Asp	Leu	Lys	Thr	Asp	Leu	Met	Phe	Cys
				335					340					345
Pro	Ser	Asp	Tyr	Tyr	Gly	Asn	Gly	Ser	Ser	Ala	Gln	Leu	Lys	Glu
				350					355					360
Leu	Asn	Lys	Ala	Glu	Asp	Asn	Val	Ser	Ile	Val	Met	Thr	Gly	Gly
				365					370					375
Arg	Ile	Trp	Gly	Glu	Val	Asp	Glu	Asn	Phe	Ala	Asn	Asn	Phe	Met
				380					385					390
Asn	Asn	Ile	Ser	Thr	Glu	Gly	His	Pro	Gly	Arg	Ala	Pro	Phe	Phe
				395					400					405
Trp	Ile	Asn	Trp	Pro	Cys	Ser	Asp	Asn	Ser	Lys	Gln	His	Leu	Ile
				410					415					420
Met	Gly	Gly	Asn	Asp	Thr	Phe	Leu	His	Pro	Gly	Val	Asp	Pro	Ser
				425					430					435
Lys	Ile	Asp	Gly	Ile	Val	Leu	Asn	Pro	Met	Gln	Gln	Ala	Glu	Ala
				440					445					450
Asn	Lys	Ser	Ala	Leu	Phe	Ala	Ile	Ala	Asp	Tyr	Ala	Trp	Asn	Ile
				455					460					465

Trp	Asp	Asn	Lys	Glu	Glu	Ala	Asp	Glu	Asn	Trp	Asn	Asp	Ser	Phe
				470					475					480
Lys	Tyr	Met	Asp	His	Gly	Thr	Ala	Glu	Glu	Thr	Asn	Ser	Ser	Leu
				485					490					495
Ala	Leu	Arg	Glu	Ile	Ser	Lys	His	Met	Ile	Asn	Gln	Asn	Met	Asp
				500					505					510
Gly	Arg	Val	Arg	Pro	Leu	Gln	Glu	Ser	Val	Glu	Leu	Ala	Pro	Lys
				515					520					525
Leu	Glu	Ala	Phe	Lys	Gln	Lys	Tyr	Asp	Ser	Gly	Ala	Ser	Ile	Lys
				530					535					540
Glu	Asp	Ala	Leu	Glu	Leu	Ile	Glu	Glu	Phe	Thr	Asn	Leu	Gln	Lys
				545					550					555
Ala	Ala	Glu	Tyr	Tyr	Lys	Asn	Asn	Pro	Gly	Asn	Glu	Arg	Thr	Arg
				560					565					570
Asp	Gln	Ile	Ile	Tyr	Trp	Leu	Asn	Cys	Trp	Glu	Asp	Thr	Met	Asp
				575					580					585
Ala	Ala	Ile	Gly	Tyr	Leu	Lys	Ser	Ala	Ile	Ala	Ile	Glu	Glu	Gly
				590					595					600
Asp	Asp	Glu	Ala	Ala	Trp	Ala	Asn	Tyr	Ser	Glu	Ala	Gln	Ser	Ala
				605					610					615
Phe	Glu	Lys	Ser	Lys	Thr	Tyr	Gly	Phe	His	Tyr	Val	Asp	His	Thr
				620					625					630
Glu	Tyr	Ala	Glu	Val	Gly	Val	Gln	His	Ile	Val	Pro	Phe	Ile	Lys
				635					640					645
Ser	Met	Gly	Gln	Asn	Leu	Ser	Val	Val	Ile	Gly	Ser	Ile	Val	Asp
				650					655					660
Pro	Asn	Arg	Ile	Ile	Ala	Thr	Tyr	Ile	Ser	Asn	Arg	Gln	Asp	Ala
				665					670					675
Pro	Thr	Gly	Asn	Pro	Asp	Asn	Ile	Phe	Asp	Asn	Asn	Ala	Ser	Thr
				680					685					690
Glu	Leu	Val	Tyr	Lys	Asn	Pro	Asn	Arg	Ile	Asp	Val	Gly	Thr	Tyr
				695					700					705
Val	Gly	Val	Lys	Tyr	Ser	Asn	Pro	Ile	Thr	Leu	Asn	Asn	Val	Glu
				710					715					720
Phe	Leu	Met	Gly	Ala	Asn	Ser	Asn	Pro	Asn	Asp	Thr	Met	Gln	Lys
				725					730					735
Ala	Lys	Ile	Gln	Tyr	Thr	Val	Asp	Gly	Arg	Glu	Trp	Ile	Asp	Leu
				740					745					750
Glu	Glu	Gly	Val	Glu	Tyr	Thr	Met	Pro	Gly	Ala	Ile	Lys	Val	Glu
				755					760					765
Asn	Leu	Asp	Leu	Lys	Val	Arg	Gly	Val	Arg	Leu	Ile	Ala	Thr	Glu
				770					775					780
Ala	Arg	Glu	Asn	Thr	Trp	Leu	Gly	Val	Arg	Asp	Ile	Asn	Val	Asn
				785					790					795
Lys	Lys	Glu	Asp	Ser	Asn	Ser	Gly	Val	Glu	Phe	Asn	Pro	Ser	Leu
				800					805					810
Ile	Arg	Ser	Glu	Ser	Trp	Gln	Val	Tyr	Glu	Gly	Asn	Glu	Ala	Asn
				815					820					825
Leu	Leu	Asp	Gly	Asp	Asp	Asn	Thr	Gly	Val	Trp	Tyr	Lys	Thr	Leu
				830					835					840
Asn	Gly	Asp	Thr	Ser	Leu	Ala	Gly	Glu	Phe	Ile	Gly	Leu	Asp	Leu
				845					850					855
Gly	Lys	Glu	Ile	Lys	Leu	Asp	Gly	Ile	Arg	Phe	Val	Ile	Gly	Lys
				860					865					870
Asn	Gly	Gly	Gly	Ser	Ser	Asp	Lys	Trp	Asn	Lys	Phe	Lys	Leu	Glu
				875					880					885
Tyr	Ser	Leu	Asp	Asn	Glu	Ser	Trp	Thr	Thr	Ile	Lys	Glu	Tyr	Asp

	890		895		900
Lys Thr Gly Ala	Pro Ala Gly Lys Asp	Val Ile Glu Glu Ser	Phe		
	905		910		915
Glu Thr Pro Ile	Ser Ala Lys Tyr Ile	Arg Leu Thr Asn Met	Glu		
	920		925		930
Asn Ile Asn Lys	Trp Leu Thr Phe Ser	Glu Phe Ala Ile Val	Ser		
	935		940		945
Asp Glu Leu Glu	Ser Ala Gly Asn Lys	Glu Asn Val Tyr Thr	Asn		
	950		955		960
Thr Glu Leu Asp	Leu Leu Ser Leu Ala	Lys Glu Asp Val Thr	Lys		
	965		970		975
Leu Ile Pro Ile	Asp Asp Leu Ser Leu	Asn His Gly Glu Tyr	Ile		
	980		985		990
Gly Val Lys Leu	Asn Arg Ile Lys Asp	Leu Ser Asn Ile Asn	Leu		
	995		1000		1005
Glu Ile Ser Asn	Asp Thr Gly Leu Lys	Leu Gln Ser Ser Met	Asn		
	1010		1015		1020
Gly Val Glu Trp	Thr Glu Ile Thr Asp	Lys Asn Thr Leu Glu	Asp		
	1025		1030		1035
Gly Arg Tyr Val	Arg Leu Phe				
	1040				

<210> 17
 <211> 97
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GENBANK ID NO: g1247124

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Asp Gly Leu Val Cys Ala Arg His Leu Lys Leu Phe Gly Tyr Glu	
20 25 30	
Pro Thr Ile Tyr Tyr Pro Lys Arg Pro Asn Lys Pro Leu Phe Thr	
35 40 45	
Ala Leu Val Thr Gln Cys Gln Lys Met Asp Ile Pro Phe Leu Gly	
50 55 60	
Glu Met Pro Ala Glu Pro Met Thr Ile Asp Glu Leu Tyr Glu Leu	
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Val Val Asp Ala Ile Phe Gly Phe Ser Phe Lys Gly Asp Val Arg	
80 85 90	
Glu Pro Phe His Val Pro Ser	
95	

<210> 18
 <211> 457
 <212> PRT
 <213> Rattus norvegicus

<220>
 <221> misc_feature

<223> GENBANK ID NO: g442368

<400> 18

Met	Gln	Pro	Ala	Arg	Lys	Leu	Leu	Ser	Leu	Leu	Val	Leu	Leu	Val
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Met	Gly	Thr	Glu	Leu	Thr	Gln	Val	Leu	Pro	Thr	Asn	Pro	Glu	Glu
			20						25					30
Ser	Trp	Gln	Val	Tyr	Ser	Ser	Ala	Gln	Asp	Ser	Glu	Gly	Arg	Cys
			35						40					45
Ile	Cys	Thr	Val	Val	Ala	Pro	Gln	Gln	Thr	Met	Cys	Ser	Arg	Asp
			50						55					60
Ala	Arg	Thr	Lys	Gln	Leu	Arg	Gln	Leu	Glu	Lys	Val	Gln	Asn	
			65						70					75
Met	Ser	Gln	Ser	Ile	Glu	Val	Leu	Asp	Arg	Arg	Thr	Gln	Arg	Asp
			80						85					90
Leu	Gln	Tyr	Val	Glu	Lys	Met	Glu	Asn	Gln	Met	Lys	Gly	Leu	Glu
			95						100					105
Ser	Lys	Phe	Arg	Gln	Val	Glu	Glu	Ser	His	Lys	Gln	His	Leu	Ala
			110						115					120
Arg	Gln	Phe	Lys	Ala	Ile	Lys	Ala	Lys	Met	Asp	Glu	Leu	Arg	Pro
			125						130					135
Leu	Ile	Pro	Val	Leu	Glu	Glu	Tyr	Lys	Ala	Asp	Ala	Lys	Leu	Val
			140						145					150
Leu	Gln	Phe	Lys	Glu	Glu	Val	Gln	Asn	Leu	Thr	Ser	Val	Leu	Asn
			155						160					165
Glu	Leu	Gln	Glu	Glu	Ile	Gly	Ala	Tyr	Asp	Tyr	Asp	Glu	Leu	Gln
			170						175					180
Ser	Arg	Val	Ser	Asn	Leu	Glu	Glu	Arg	Leu	Arg	Ala	Cys	Met	Gln
			185						190					195
Lys	Leu	Ala	Cys	Gly	Lys	Leu	Thr	Gly	Ile	Ser	Asp	Pro	Val	Thr
			200						205					210
Val	Lys	Thr	Ser	Gly	Ser	Arg	Phe	Gly	Ser	Trp	Met	Thr	Asp	Pro
			215						220					225
Leu	Ala	Pro	Glu	Gly	Asp	Asn	Arg	Val	Trp	Tyr	Met	Asp	Gly	Tyr
			230						235					240
His	Asn	Asn	Arg	Phe	Val	Arg	Glu	Tyr	Lys	Ser	Met	Val	Asp	Phe
			245						250					255
Met	Asn	Thr	Asp	Asn	Phe	Thr	Ser	His	Arg	Leu	Pro	His	Pro	Trp
			260						265					270
Ser	Gly	Thr	Gly	Gln	Val	Val	Tyr	Asn	Gly	Ser	Ile	Tyr	Phe	Asn
			275						280					285
Lys	Phe	Gln	Ser	His	Ile	Ile	Ile	Arg	Phe	Asp	Leu	Lys	Thr	Glu
			290						295					300
Thr	Ile	Leu	Lys	Thr	Arg	Ser	Leu	Asp	Tyr	Ala	Gly	Tyr	Asn	Asn
			305						310					315
Met	Tyr	His	Tyr	Ala	Trp	Gly	Gly	His	Ser	Asp	Ile	Asp	Leu	Met
			320						325					330
Val	Asp	Glu	Asn	Gly	Leu	Trp	Ala	Val	Tyr	Ala	Thr	Asn	Gln	Asn
			335						340					345
Ala	Gly	Asn	Ile	Val	Ile	Ser	Lys	Leu	Asp	Pro	Val	Ser	Leu	Gln
			350						355					360
Ile	Leu	Gln	Thr	Trp	Asn	Thr	Ser	Tyr	Pro	Lys	Arg	Ser	Ala	Gly
			365						370					375
Glu	Ala	Phe	Ile	Ile	Cys	Gly	Thr	Leu	Tyr	Val	Thr	Asn	Gly	Tyr
			380						385					390
Ser	Gly	Gly	Thr	Lys	Val	His	Tyr	Ala	Tyr	Gln	Thr	Asn	Ala	Ser
			395						400					405

Thr	Tyr	Glu	Tyr	Ile	Asp	Ile	Pro	Phe	Gln	Asn	Lys	Tyr	Ser	His
				410					415					420
Ile	Ser	Met	Leu	Asp	Tyr	Asn	Pro	Lys	Asp	Arg	Ala	Leu	Tyr	Ala
				425					430					435
Trp	Asn	Asn	Gly	His	Gln	Thr	Leu	Tyr	Asn	Val	Thr	Leu	Phe	His
				440					445					450
Val	Ile	Arg	Ser	Asp	Glu	Leu								
				455										

<210> 19

<211> 369

<212> PRT

<213> Bos taurus

<220>

<221> misc_feature

<223> GENBANK ID NO: g415939

<400> 19

Met	Leu	Leu	Leu	Pro	Leu	Ser	Val	Leu	Leu	Leu	Leu	Thr	Gln	Pro
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Trp	Arg	Ser	Leu	Gly	Ala	Glu	Met	Lys	Ile	Tyr	Ser	Gln	Lys	Thr
				20					25					30
Met	Ala	Asn	Ala	Cys	Thr	Leu	Val	Met	Cys	Ser	Pro	Pro	Glu	Asp
				35					40					45
Gly	Leu	Pro	Gly	Arg	Asp	Gly	Arg	Asp	Gly	Arg	Glu	Gly	Pro	Arg
				50					55					60
Gly	Glu	Lys	Gly	Asp	Pro	Gly	Ser	Pro	Gly	Pro	Ala	Gly	Arg	Ala
				65					70					75
Gly	Met	Pro	Gly	Pro	Ala	Gly	Pro	Ile	Gly	Leu	Lys	Gly	Asp	Asn
				80					85					90
Gly	Ser	Ala	Gly	Glu	Pro	Gly	Pro	Lys	Gly	Asp	Thr	Gly	Pro	Pro
				95					100					105
Gly	Pro	Pro	Gly	Met	Pro	Gly	Pro	Ala	Gly	Arg	Glu	Gly	Pro	Ser
				110					115					120
Gly	Lys	Gln	Gly	Ser	Met	Gly	Pro	Pro	Gly	Thr	Pro	Gly	Pro	Lys
				125					130					135
Gly	Asp	Thr	Gly	Pro	Lys	Gly	Gly	Val	Gly	Ala	Pro	Gly	Ile	Gln
				140					145					150
Gly	Ser	Pro	Gly	Pro	Ala	Gly	Leu	Lys	Gly	Glu	Arg	Gly	Ala	Pro
				155					160					165
Gly	Glu	Pro	Gly	Ala	Pro	Gly	Arg	Ala	Gly	Ala	Pro	Gly	Pro	Ala
				170					175					180
Gly	Ala	Ile	Gly	Pro	Gln	Gly	Pro	Ser	Gly	Ala	Arg	Gly	Pro	Pro
				185					190					195
Gly	Leu	Lys	Gly	Asp	Arg	Gly	Thr	Pro	Gly	Glu	Arg	Gly	Ala	Lys
				200					205					210
Gly	Glu	Ser	Gly	Leu	Ala	Glu	Val	Asn	Ala	Leu	Arg	Gln	Arg	Val
				215					220					225
Gly	Ile	Leu	Glu	Gly	Gln	Leu	Gln	Arg	Leu	Gln	Asn	Ala	Phe	Ser
				230					235					240
Gln	Tyr	Lys	Lys	Ala	Met	Leu	Phe	Pro	Asn	Gly	Arg	Ser	Val	Gly
				245					250					255
Glu	Lys	Ile	Phe	Lys	Thr	Val	Gly	Ser	Glu	Lys	Thr	Phe	Gln	Asp
				260					265					270

Ala	Gln	Gln	Ile	Cys	Thr	Gln	Ala	Gly	Gly	Gln	Leu	Pro	Ser	Pro	
				275					280					285	
Arg	Ser	Gly	Ala	Glu	Asn	Glu	Ala	Leu	Thr	Gln	Leu	Ala	Thr	Ala	
				290					295					300	
Gln	Asn	Lys	Ala	Ala	Phe	Leu	Ser	Met	Ser	Asp	Thr	Arg	Lys	Glu	
				305					310					315	
Gly	Thr	Phe	Ile	Tyr	Pro	Thr	Gly	Glu	Pro	Leu	Val	Tyr	Ser	Asn	
				320					325					330	
Trp	Ala	Pro	Gln	Glu	Pro	Asn	Asn	Asp	Gly	Gly	Ser	Glu	Asn	Cys	
				335					340					345	
Val	Glu	Ile	Phe	Pro	Asn	Gly	Lys	Trp	Asn	Asp	Lys	Val	Cys	Gly	
				350					355					360	
Glu	Gln	Arg	Leu	Val	Ile	Cys	Glu	Phe							
				365											

<210> 20

<211> 313

<212> PRT

<213> Mus musculus

<220>

<221> misc_feature

<223> GENBANK ID NO: g3357909

<400> 20

Met	Thr	Gln	Leu	Gly	Phe	Leu	Leu	Phe	Ile	Met	Val	Ala	Thr	Arg	
1				5					10					15	
Gly	Cys	Ser	Ala	Ala	Glu	Glu	Asn	Leu	Asp	Thr	Asn	Arg	Trp	Gly	
				20					25					30	
Asn	Ser	Phe	Phe	Ser	Ser	Leu	Pro	Arg	Ser	Cys	Lys	Glu	Ile	Lys	
				35					40					45	
Gln	Glu	His	Thr	Lys	Ala	Gln	Asp	Gly	Leu	Tyr	Phe	Leu	Arg	Thr	
				50					55					60	
Lys	Asn	Gly	Val	Ile	Tyr	Gln	Thr	Phe	Cys	Asp	Met	Thr	Thr	Ala	
				65					70					75	
Gly	Gly	Gly	Trp	Thr	Leu	Val	Ala	Ser	Val	His	Glu	Asn	Asn	Met	
				80					85					90	
Arg	Gly	Lys	Cys	Thr	Val	Gly	Asp	Arg	Trp	Ser	Ser	Gln	Gln	Gly	
				95					100					105	
Asn	Arg	Ala	Asp	Tyr	Pro	Glu	Gly	Asp	Gly	Asn	Trp	Ala	Asn	Tyr	
				110					115					120	
Asn	Thr	Phe	Gly	Ser	Ala	Glu	Ala	Ala	Thr	Ser	Asp	Asp	Tyr	Lys	
				125					130					135	
Asn	Pro	Gly	Tyr	Phe	Asp	Ile	Gln	Ala	Glu	Asn	Leu	Gly	Ile	Trp	
				140					145					150	
His	Val	Pro	Asn	Lys	Ser	Pro	Leu	His	Asn	Trp	Arg	Lys	Ser	Ser	
				155					160					165	
Leu	Leu	Arg	Tyr	Arg	Thr	Phe	Thr	Gly	Phe	Leu	Gln	His	Leu	Gly	
				170					175					180	
His	Asn	Leu	Phe	Gly	Leu	Tyr	Lys	Lys	Tyr	Pro	Val	Lys	Tyr	Gly	
				185					190					195	
Glu	Gly	Lys	Cys	Trp	Thr	Asp	Asn	Gly	Pro	Ala	Leu	Pro	Val	Val	
				200					205					210	
Tyr	Asp	Phe	Gly	Asp	Ala	Arg	Lys	Thr	Ala	Ser	Tyr	Tyr	Ser	Pro	
				215					220					225	
Ser	Gly	Gln	Arg	Glu	Phe	Thr	Ala	Gly	Tyr	Val	Gln	Phe	Arg	Val	

	230		235		240
Phe Asn Asn Glu Arg Ala Ala Ser Ala Leu Cys Ala Gly Val Arg					
	245		250		255
Val Thr Gly Cys Asn Thr Glu His His Cys Ile Gly Gly Gly Gly					
	260		265		270
Phe Phe Pro Glu Gly Asn Pro Val Gln Cys Gly Asp Phe Ala Ser					
	275		280		285
Phe Asp Trp Asp Gly Tyr Gly Thr His Asn Gly Tyr Ser Ser Ser					
	290		295		300
Arg Lys Ile Thr Glu Ala Ala Val Leu Leu Phe Tyr Arg					
	305		310		